# OPERATING INSTRUCTIONS MANUAL

**(Please retain for future reference)**

## For

# FVN/P-400 INDIRECT FIRED SPACE HEATERS

**CERTIFIED FOR USE IN CANADA AND U.S.A.**
**As per Standard ANSI Z83.7/CSA 21.4 2000 Gas Fired Construction Heaters / Unattended Type.**

**FLAGRO INDUSTRIES LIMITED**
**ST. CATHARINES, ONTARIO**
**CANADA**

**GENERAL HAZARD WARNING:**

**FAILURE TO COMPLY WITH THE PRECAUTIONS AND INSTRUCTIONS PROVIDED WITH THIS HEATER, CAN RESULT IN DEATH, SERIOUS BODILY INJURY AND PROPERTY LOSS OR DAMAGE FROM HAZARDS OF FIRE, EXPLOSION, BURN, ASPHYXIATION, CARBON MONOXIDE POISONING, AND/OR ELECTRICAL SHOCK.**

**ONLY PERSONS WHO CAN UNDERSTAND AND FOLLOW THE INSTRUCTIONS SHOULD USE OR SERVICE THIS HEATER.**

**IF YOU NEED ASSISTANCE OR HEATER INFORMATION SUCH AS AN INSTRUCTIONS MANUAL, LABELS, ETC. CONTACT THE MANUFACTURER.**

**WARNING:**

**FIRE, BURN, INHALATION, AND EXPLOSION HAZARD. KEEP SOLID COMBUSTIBLES, SUCH AS BUILDING MATERIALS, PAPER OR CARDBOARD, A SAFE DISTANCE AWAY FROM THE HEATER AS RECOMMENDED BY THE INSTRUCTIONS. NEVER USE THE HEATER IN SPACES WHICH DO OR MAY CONTAIN VOLATILE OR AIRBORNE COMBUSTIBLES, OR PRODUCTS SUCH AS GASOLINE, SOLVENTS, PAINT THINNER, DUST PARTICLES OR UNKNOWN CHEMICALS.**

**WARNING:**

**NOT FOR HOME OR RECREATIONAL VEHICLE USE.**

**WARNING:**

**INTENDED USE IS PRIMARILY THE TEMPORARY HEATING OF BUILDINGS UNDER CONSTRUCTION, ALTERATION, REPAIR OR EMERGENCIES ONLY.**

**THIS HEATER SHALL BE INSTALLED SUCH THAT IT IS NOT DIRECTLY EXPOSED TO WATER SPRAY, AND/OR DRIPPING WATER.**

**This heater is designed and approved for use as a construction heater under Standard ANSI Z83.7/ CGA 2.14. 2000.**

**We cannot anticipate every use which may be made of our heaters. CHECK WITH YOU LOCAL FIRE SAFETY AUTHORITY IF YOU HAVE QUESTIONS ABOUT APPLICATIONS.**

**Other standards govern the use of fuel gases and heat producing products in specific applications. Your local authority can advise you about these.**

## SPECIFICATIONS

| | |
|---|---|
| Model …… | FVP-400 Propane<br>FVN-400 Natural Gas |
| Input …….... | 390,000 btuh |
| Fuel ……. | FVP-400 Propane<br>FVN-400 Natural Gas |
| Manifold Pressure ……. | 3.2” W.C. Propane<br>2.0” W.C. NG |
| Maximum Inlet Pressure …… | 13.0” W.C. Propane<br>10.0” W.C. NG |
| Ignition …… | Direct Spark Ignition |
| ……..…. | Thermostat Control |
| Air Circulation ……. | 2500 cfm |
| Fuel Consumption ……..... | 18.5 lbs/hr Propane |
| | 380 cfh NG |
| Approved ……..... | cETLus listed |

## INSTALLATION:

The installation of this heater for use with natural gas shall conform with local codes or, in the absence of codes, with the National Fuel Gas Code ANSI Z233.1/NFPA 54 and the Natural Gas and Propane Installation Code, CSA B149.1-00. This heater must be installed by a qualified gas technician, following local codes published by the authority having jurisdiction. All installations performed in the state of Massachusetts must be completed by a qualified plumber and gas fitter of the State of Massachusetts.

The installation of this heater for use with propane tank or cylinder shall conform with Local codes or, in the absence of local codes, with the Standard for the Storage and Handling of Liquefied Petroleum Gases, ANSI Z233/NFPA 54 and the Natural Gas and Propane Installation Code, CSA B149.

This heater must be located at least 10ft (3m) from any propane gas cylinder. This heater shall not be directed toward any propane gas container within 20ft (6m).

## CONNECTING THE CYLINDER (LP Models only):

If cylinders are used to supply the heater, no cylinders smaller than 100lb capacity shall be used. These cylinders must supply a vapor withdrawal only.

1. All cylinder connections must be made using a wrench to tighten the POL fitting.

2. Be sure that the cylinder valve is in the closed position when connection or disconnecting the cylinder.

3. A soap and water solution must be applied to all connections in order to leak check the system.

The gas must be turned off at the propane supply cylinder(s) when the heater is not in use. When the heater is to be stored indoors, the connection between the propane supply cylinder(s) and the heater must be disconnected and the cylinders removed from the heater and stored in accordance with Standard for the Storage and Handling or Liquefied Petroleum Gases, ANSI/NFPA 58 and CSA B149.1, Natural Gas and Propane Installation Code.

**PIPING:** This heater must be installed by a qualified gas technician following local codes published by the authority having jurisdiction. Sizing of supply piping must be determined using the length of pipe run as well as total btuh rating of the appliance(s). Appropriate piping tables must be used to determine size of supply piping dependant on the length of run from source.

**PRESSURES:**

| | | |
|---|---|---|
| MAXIMUM INLET PRESSURES: | LP: | 13.0 IN. WC. |
| | NG: | 10.0 IN. WC. |
| MINIMUM INLET PRESSURES: | LP: | 8.0 IN. WC. |
| | NG: | 4.0 IN. WC. |

This heater must be supplied by pressures indicated on the approval label. Over pressure may cause controls to fail. DO NOT supply this unit with more than ½ psig (14.0 in. W.C.)

Note: A second stage regulator must be installed if the supply pressure exceeds ½ psig.

**FUEL:** This heater will operate on propane **OR** natural gas – NOT BOTH. The manifold pressures are listed on the approval label. To determine which fuel to use see rating plate. DO NOT attempt to use the heater without consulting the rating plate.

Note: The proper main burner orifice must be installed and rating plate must reflect the fuel the heater burning. DO NOT operate the heater with out consulting the rating plate.

Heater conversion must be done by a qualified technician and rating plate must reflect any change.

**HOSES:** All hoses used to connect this heater of fuel supply must be Type 1 approved propane / natural gas hose assemblies.

**ELECTRICAL:**

**WARNING**

**Electrical Grounding Instructions**

This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle.

115v supply must be available. Please note that the heater requires 15 amps for proper operation. Ensure appropriate gauge extension cord is used.

- 12/3 AWG at 50 Feet
- 10/3 AWG at 100 Feet

**CLEARANCE TO COMBUSTIBLES:**

| TOP | FRONT | SIDES | REAR | FLUE PIPE |
|---|---|---|---|---|
| 3 ft | 10 ft | 3 ft | 3 ft | 3 ft |

**DUCTING:** Canvas heater duct with a minimum temperature handling of 300 deg F. including wire reinforcement to prevent collapsing. Heater is designed for use with 2 x 12" diameter ducts equipped with pin lock couplings (FV-D12)**.**

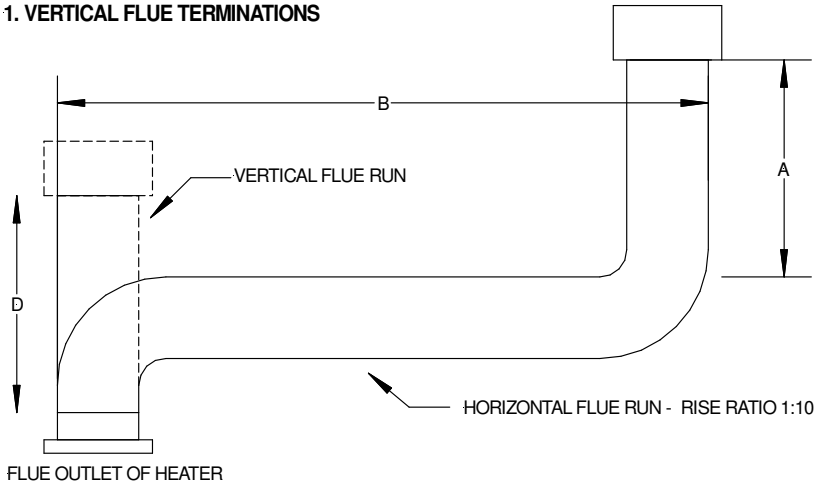
Install ducting to outlet on the heater using pin-locks provided on collar of ducting. Ducting should be inspected periodically for tearing and/or wear marks. Ducting should be stored in a dry area when not in use

**FLUE PIPE:** Flue pipe connection must terminate with a vertical run at least 2 ft long. Horizontal runs should have a rise ratio of 1 in 10 away from the heater. The chimney should have a 0.2" W.C. draft to ensure safe operation of the unit.

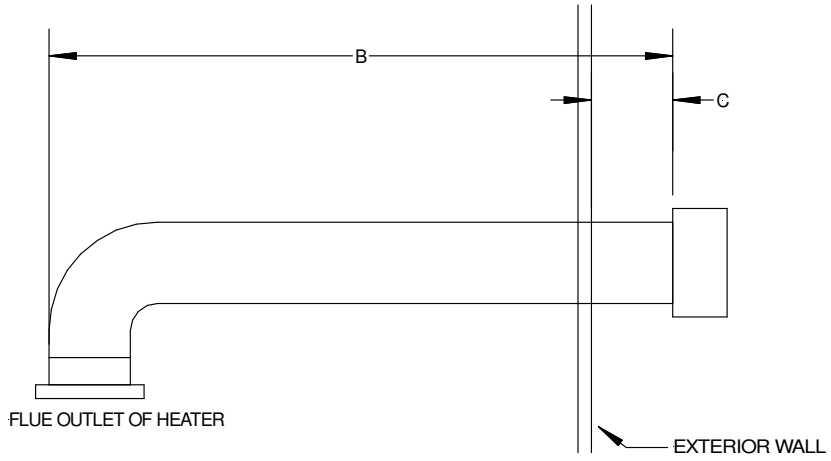
The vent outlet on the heater is 6" diameter. Certified venting must be used at all times. Vent cap should be installed in situations where downdrafts occur. All venting must correspond with the CSA B149 standard or in its absence, local codes.

## FV SERIES CONSTRUCTION HEATER – VENTING REQUIREMENTS

**1. VERTICAL FLUE TERMINATIONS**




**2. HORIZONTAL FLUE TERMINATIONS**




A - VENT TERMINATION MUST BE A MINIMUM OF 2FT HIGHER THAN ANY POINT WITHIN 10FT.

B - MAXIMUM HORIZONTAL RUN IS 30FT.
NOTE: 90deg ELBOW = 10ft HORIZONTAL VENT ALLOWANCE
45deg ELBOW = 5ft HORIZONTAL VENT ALLOWANCE

C - VENT TERMINATION IN HORIZONTAL POSITION MUST BE MINIMUM 4ft FROM ANY COMBUSTABLE SURFACE

D - EXTERIOR VERTICAL VENT TERMINATION MUST BE A MINIMUM OF 2ft.

NOTE: ALL VENT TERMINATIONS MUST HAVE A RAIN CAP INSTALLED AS PER LOCAL CODE REQUIREMENTS.

**MAINTENANCE:**

1. **Every construction heater should be inspected before each use, and at least annually by a qualified service person. Incorrect maintenance my result in improper operation of the heater and serious injury could occur.**

2. Service and maintenance should only be done by a qualified service person.

The hose assemblies shall be visually inspected prior to each use of the heater. If it is evident there is excessive abrasion or wear, or the hose is cut, it must be replaced prior to the heater being put into operation. The replacement hose assembly shall be that specified by the manufacturer.

3. The appliance must be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.

4. The flow of combustion and ventilation air must not be obstructed. Be sure to check the fan assembly and ensure that the motor and blade are operating properly.

5. Compressed air should be used to keep components free of dust and dirt build up. Note: Do not use the compressed air inside any piping or regulator components.

6. Fan Limit Switch (Part# FV-407A) should be replaced if the fan motor does not shut off after the heat exchanger has cooled down.

7. High Limit Switches (Part# FV-406 and FV-437) should be checked each season. These limit switches will ensure the burner shuts down if the temperature exceeds 150°F degrees at rear of unit and 290°F at the outlet.

8. Heat Exchanger should be cleaned if smokey conditions continue even after the air adjustments on the burner are made.

## START UP INSTRUCTIONS:

1. Be sure the switch is in the “OFF” position.

2. Ensure electrical cord is grounded and heater is on a level surface.

3. Plug in supply cord to 115v, 15amp outlet.

4. Move switch to “MANUAL” position for manual control.

5. Move switch to “THERMOSTAT” position for thermostatic control.

**Please Note:**

1. If using Thermostat on unit, unit must be started in Thermostat position.

2. When changing between manual and thermostat operation, the heater must be left in the “OFF” position for 30 seconds to prevent the burner from locking out.

3. When using a generator for electrical supply, make sure the generator is properly grounded and generator is at a 60Hz frequency.

4. In the event that a generator is being used and the generator runs out of fuel, make sure the heater switch is in the “OFF” position before restarting generator, failure to do so may damage heater.

## TO SHUT DOWN:

1. Close main gas supply valve while heater is operating.

2. Move switch to “OFF” position.

3. Disconnect heater from gas supply.

**NOTE:** Fan will continue to operate after the burner shuts down. Once the unit cools down, the fan will stop.

## IF HEATER FAILS TO START:

1. Press manual reset button at rear of burner.

2. Check gas pressure supply. Supply and manifold pressure must follow those on rating plate.

3. Ensure proper power supply and extension cord is being used.

4. If heater fails to ignite after 3 attempts, call your supplier for service.

## SAFE OPERATION PRECAUTIONS:

1. For use with propane or natural gas only. See approval label.

2. Use switch to shut down the heater. Do not try to shut down the heater by unplugging the electrical cord.

3. Do not plug anything other that the thermostat into the “Thermostat” plug.

4. Follow electrical requirements shown on rating plate and/or Electrical requirements section of this manual.

5. Before removing any guards or performing any maintenance, be sure that the main power supply is disconnected.

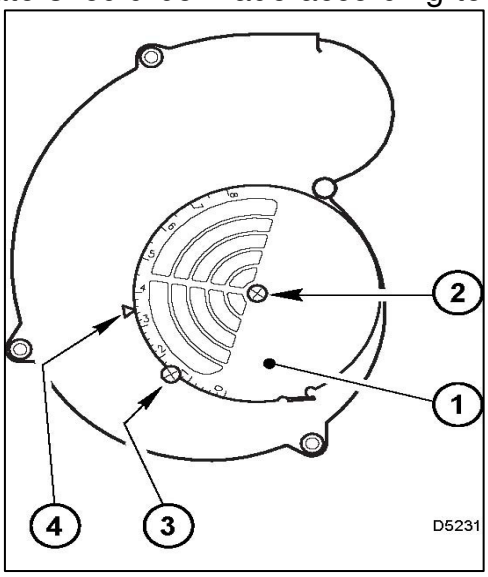
## COMBUSTION AIR ADJUSTMENTS:

**NOTE:** Proper combustion air adjustment must be achieved using a certified combustion analyzer to ensure complete combustion.

The air adjustment should be made to achieve 10% $CO_2$ on natural gas and 12% $CO_2$ on propane.

## SETTING THE AIR ADJUSTMENT PLATE

**A)** Regulation of the combustion air flow is made by adjustment of the manual AIR ADJUSTMENT PLATE (1) after loosening the FIXING SCREWS (2 and 3). The initial setting of the air adjustment plate should be made according to Column 5 in the Burner Set-up Chart.




**B)** The proper number on the manual AIR ADJUSTMENT PLATE (1) should line up with the SETTING INDICATOR (4) on the fan housing cover. Once set, the air adjustment plate should be secured in place by tightening SCREWS 2 and 3.

**C)** The final position of the air adjustment plate will vary on each installation. Use instruments to establish the proper settings for maximum $CO_2$.

**NOTE:** Variations in flue gas, $CO_2$ and temperature readings may be experienced when the burner cover is put in place. Therefore, the burner cover **must** be in place when making the final combustion instrument readings, to ensure proper test results.

## BURNER SET-UP CHART

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| **FIRING RATE (BTUH)** | **ORIFICE-LP** | **ORIFICE-NG** | **HEAD SETTING** | **AIR DAMPER SETTING** |
| 390,000 | PART # FVP-425 | PART # FVN-426 | 5 | 4.8 |

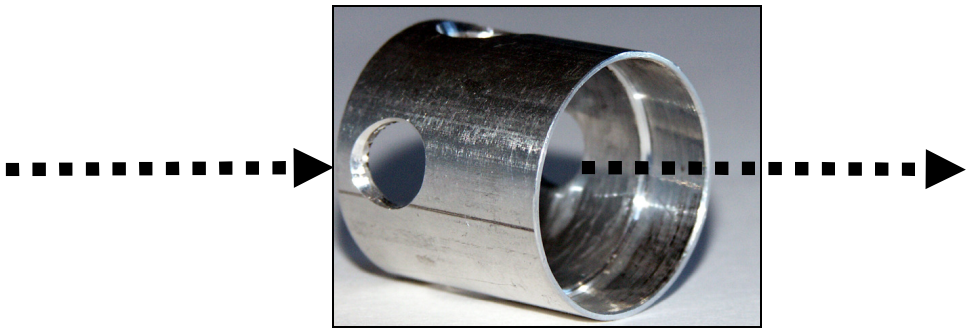
# TEMPERATURE FEELER GAUGE ADJUSTMENT
## (ATTACHED TO FAN SWITCH)

The temperature feeler gauge is required to be always touching the heater exchanger.

The temperature feeler gauge controls the air flow over the fan switch, which eliminates any unnecessary fan cycling. The temperature feeler gauge can be adjusted for different outside temperatures, by rotating the location of the temperature feeler gauge holes. This will provide maximum performance of the unit in different applications.

If supply air is warm (-5° C, indoor application):

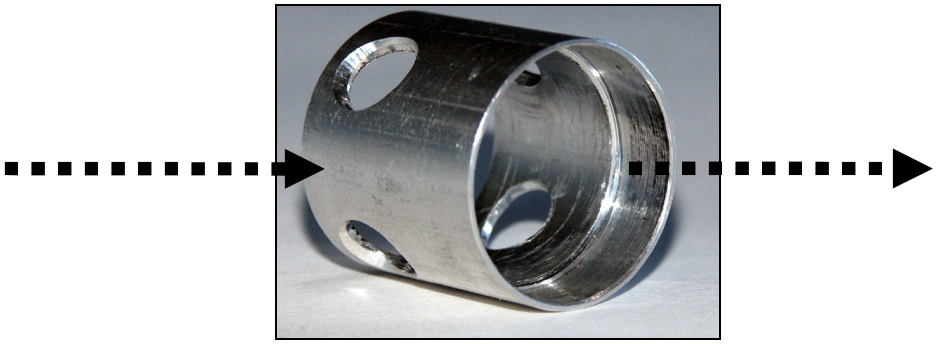
Turn the temperature feeler gauge so that the holes are parallel with the heat exchanger. This will help the fan switch to remain cool and not overheat. See following:



If supply air is cold (under -5° C):

Turn the temperature feeler gauge so that the holes are closed off as the air goes over the heat exchanger. This will reduce fan cycling and the unit from shutting down.

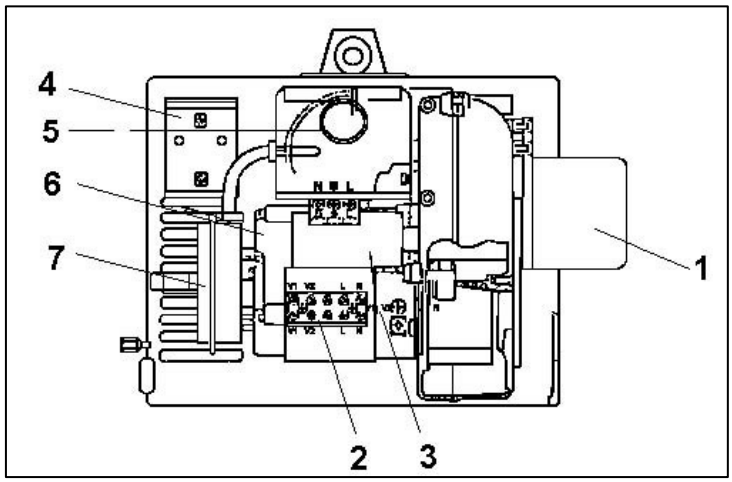
See following:



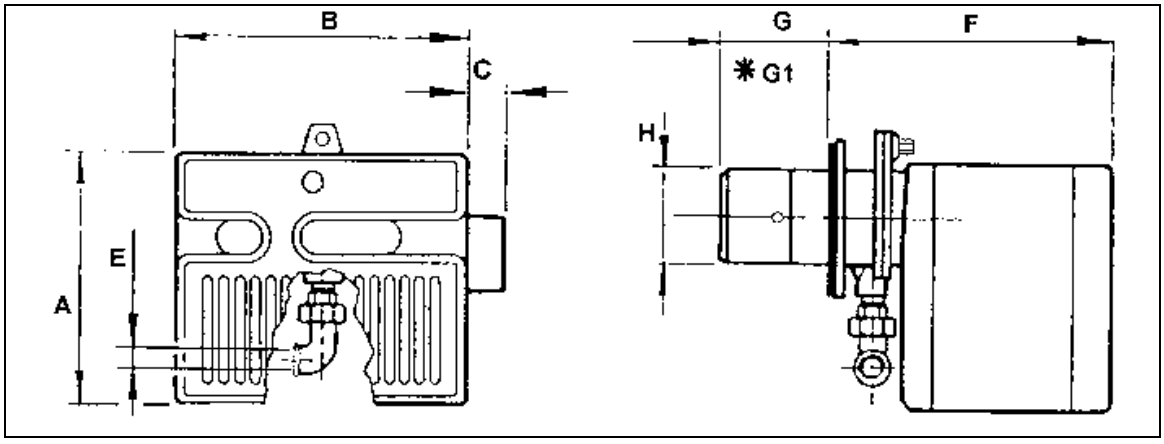
In extreme cold conditions, cover the holes on the temperature feeler gauge using foil tape. Ensure that the temperature feeler gauge is readjusted for warmer weather conditions. Failure to do so may result in burning out fan switches – not covered under warranty.

## PRINCIPAL BURNER COMPONENTS

1. Air Damper (Optional Delete)
2. Air Gate Lock-screws
3. Wiring Terminal Block
4. Air Pressure Switch
5. Motor
6. Lockout Lamps and Reset Button
7. Cover Screw
8. Rubber Grommet
9. Capacitor



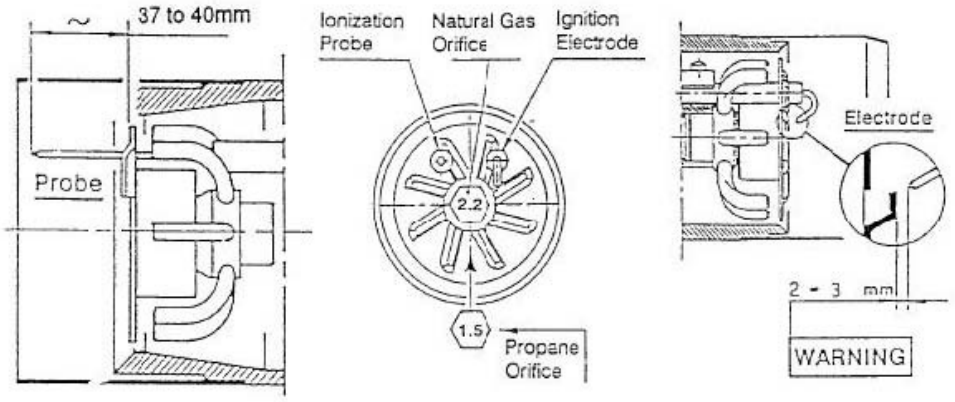

## BURNER DIMENSIONS



| Model 400 | A | B | C | F | G | *G1 | H |
|---|---|---|---|---|---|---|---|
| inches | 10 5/16 | 12 | 1 3/8 | 13 11/16 | 3 3/4 | 10 | 4 1/8 |
| mm | 2262 | 305 | 35 | 347 | 95 | 255 | 61 |

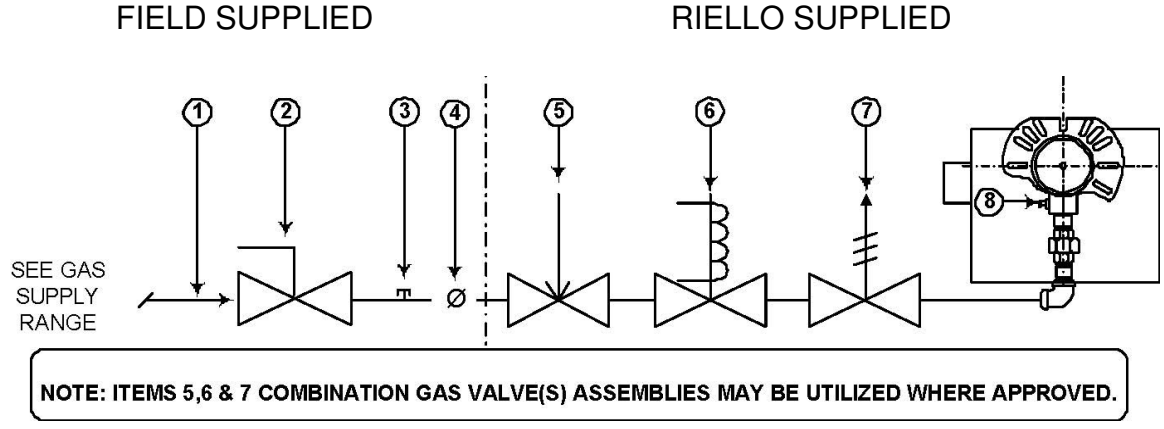
*G1 is for LBT version
Gasket thickness is 4 millimeters

## ELECTRODE AND FLAME PROBE ADJUSTMENTS




**IMPORTANT:** Do not turn the ignition electrode. Leave it as shown in the drawing. If the ignition electrode is put near the ionization probe, the amplifier of the control box may be damaged.

## TYPICAL GAS TRAIN LAYOUT



## GAS TRAIN LEGEND

❶ GAS SUPPLY & FLOW DIRECTION OF GAS

❷ AS SUPPLY MAIN SHUTOFF MANUAL VALVE (FIELD SUPPLIED

❸ GAS SUPPLY PRESSURE TEST POINT (FIELD SUPPLIED)

❹ GAS TRAIN PIPE DIAMETER SIZE(S): BURNER G120 1/2" NPT (REDUCED AT COMBUSTION HEAD TO 3/8")

BURNER(S) G200 & G400 3/4" NPT

❺ GAS APPLIANCE PRESSURE REGULATOR

❻ SAFETY SHUTOFF GAS VALVE (VS) 24V OR 120V SUPPLIED) OPERATED

❼ MAIN GAS VALVE (V1) 24V OR 120V OPERATED SINGLE STAGE

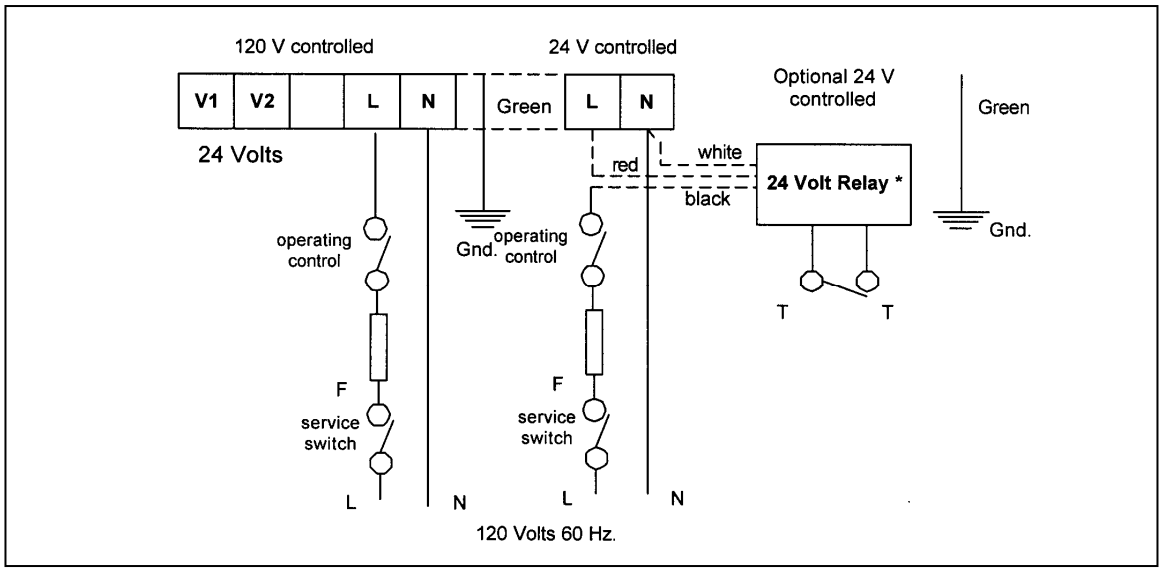
❽ GAS BURNER MANIFOLD TEST POINT

GAS SUPPLY PRESSURE RANGES:

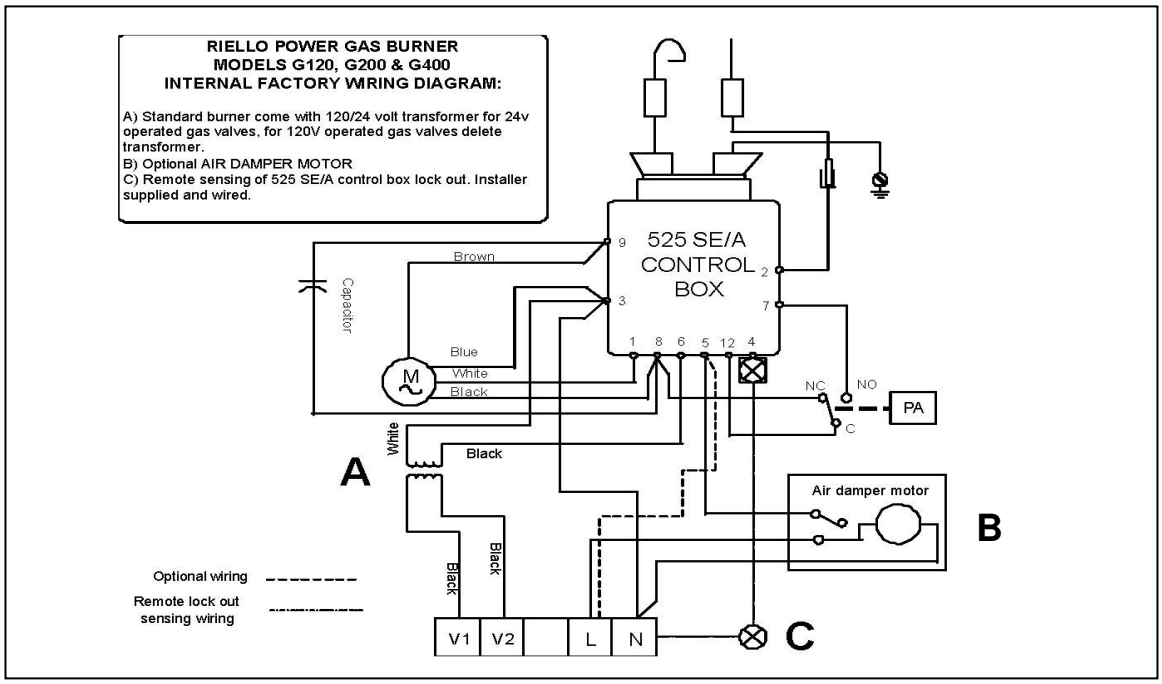
NATURAL GAS PRESSURE:
MIN. = 4.0″ WC
MAX. 10.0″ WC

L.P. PROPANE GAS PRESSURE
MIN. = 8.0″ WC
MAX. 13.0″ WC

## FIELD WIRING DIAGRAM



## FACTORY WIRING DIAGRAM




**NOTE:**

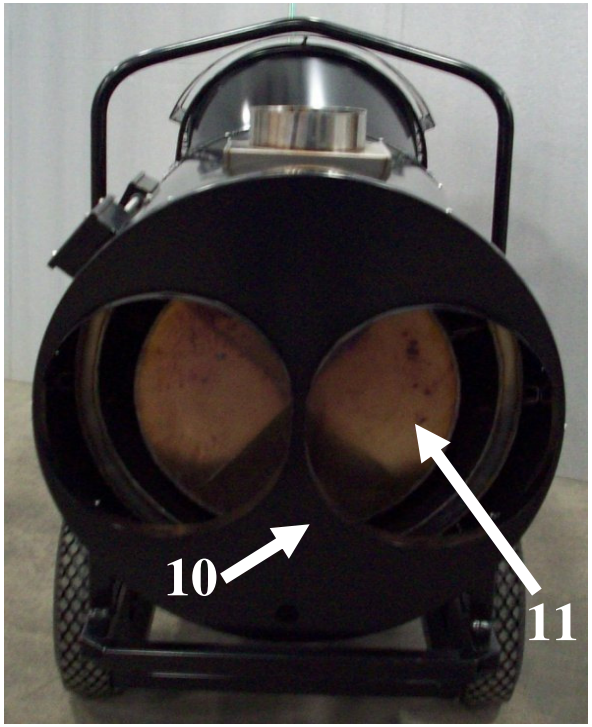
1. This burner is approved for use without the motorized air damper. In these instances optional wiring is used

2. The SAFETY SWITCH on the 525 SE CONTROL BOX is equipped with a contact allowing remote sensing of burner lockout. The electrical connection is located on the CONTROL BOX terminal 4 as indicated. Should burner lockout occur, the 525 SE CONTROL BOX will supply a power source of 120 Vac to the connection terminal. The maximum allowable current draw on this terminal is 1 A.

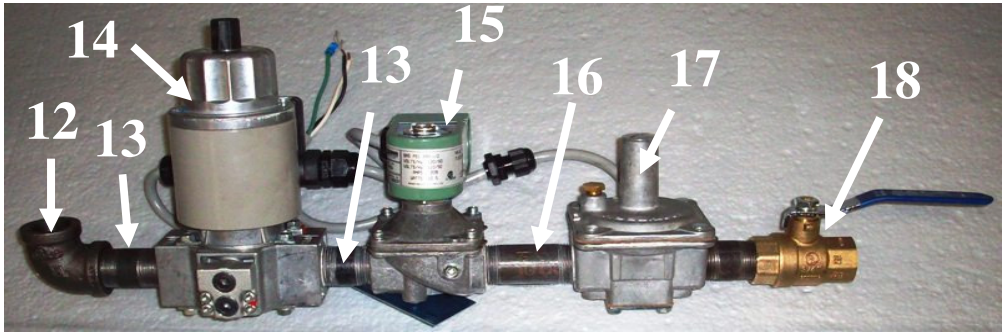
# *Indirect Fired Heater FVN/P-400 Parts List*

# *Indirect Fired Heater  FVN/P-400 Parts List*

***Front***




***Manifold***



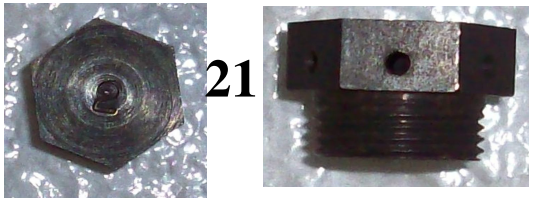

***Burner Orifice***

***Valve Hose***

***Propane***

FUNZ. A GPL - BETRIEB MIT FLÜSSIGGAS - LPG
OPERATION - FONCT. AUX GAZ LIQUIDES - LPG FUNK.
FUNCION. PROPANO - LPG TOIMINTA - WERKING OP LPG
GASOL FUNCTION - ΛΕΙΤΟΥΡΓΙΑ ΜΕ ΥΓΡΑΕΡΙΟ
20

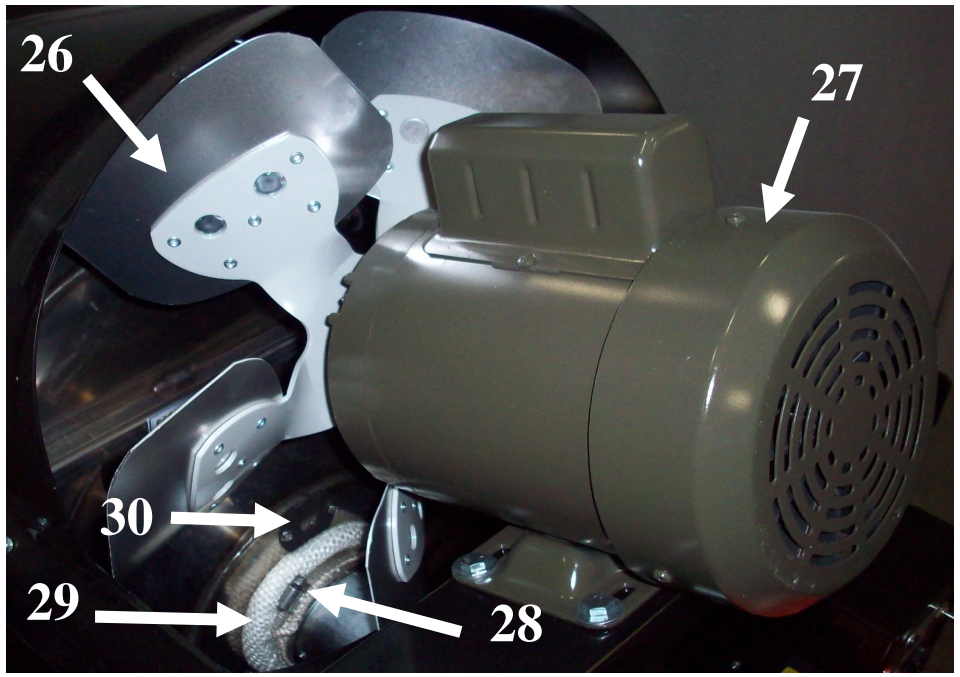
***Natural Gas***



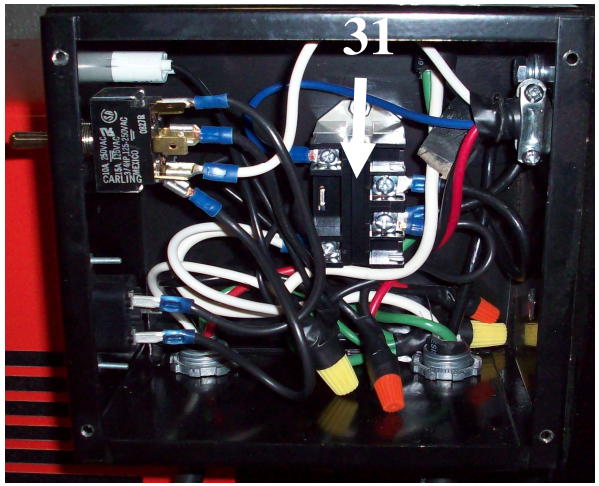
# *Indirect Fired Heater FVN/P-400 Parts List*

## *Control Box*

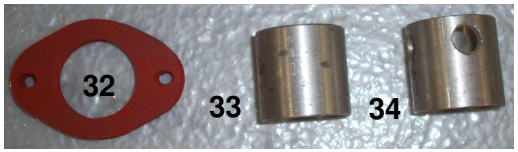
## *Fan and Motor*



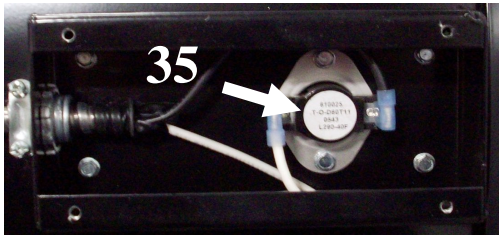

## *Inside Control Box*



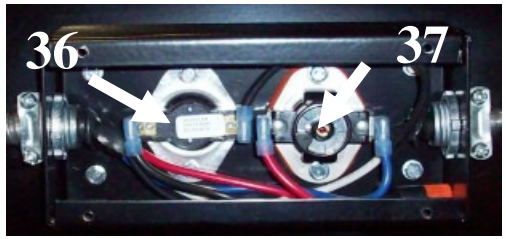

## *Fan Limit Switch accessories*



## *Front Limit Switch Box*




## *Rear Limit Switch Box*



# *Indirect Fired Heater FVN/P-400 Parts List*

| Item # | Description | P/N | |
|---|---|---|---|
| 1 | Fan Motor Canopy | FV-408 | |
| 2 | Lifting Harness | FV-438 | |
| 3 | High Limit Box (Single Hole) | FV-P11 | cover - FV-P12 |
| 4 | 16 " Wheel | FV-403 | |
| 5 | Fan Limit Box (Double Hole) | FV-P10 | cover - FV-P12 |
| 6 | LP/NG Frame | FVP-FR | |
| 7 | 18" Power Cord w/Plug | FV-404 | |
| 8 | Control Box | FV-P08 | |
| 9 | Riello Burner G400 | FVNP-424 | |
| 10 | Front Duct Outlet Panel (Dual 12") | FV-434 | |
| 11 | SS Heat Exchanger | FV-405 | |
| 12 | 3/4" 90 Elbow SCH 40 | 40-100-12 | |
| 13 | 3/4" Nipple 2" | 40-113E2 | |
| 14 | Mag Type 200 Solenoid Valve | FVNP-428 | |
| 15 | Asco Solenoid Valve | FVNP-429 | |
| 16 | 3/4" Nipple 3" | 40-113E3 | |
| 17 | Maxitrol Regulator | FVNP-427 | |
| 18 | Shut off Valve 3/4" | 2103-E-CGA | |
| 19 | Valve Assembly Hose | S6012-12 | 349-12E/40-103-12 |
| 20 | LP Burner Orifice | FVP-425 | |
| 21 | NG Burner Orifice | FVN-426 | |
| 22 | Power Indicator Light | FV-449SI | |
| 23 | Toggle Switch (on control box) | FV-409 | |
| 24 | Red Light ( on control box) | FV-411 | |
| 25 | Thermostat Plug (on control box) 2011 > | FV-414B | FV-414A -Prior |
| 26 | 16" Fan Blade | FV-402 | |
| 27 | 3/4 H.P. Fran Motor | FV-401 | |
| 28 | Burner Gasket Clamp | HC5-64 | |
| 29 | Burner Gasket | FV-431 | |
| 30 | Sight Glass w/Gasket | FV-446 | FV-447 |
| 31 | Main Relay | FV-448 | |
| 32 | Fan Limit Silicone Gasket | FV-407G | |
| 33 | Solid Feeler Gauge | FV-433B | |
| 34 | Feeler Gauge | FV-433 | |
| 35 | High Limit Switch (Outlet) 290 F | FV-406 | |
| 36 | High Limit (Rear) 150 F | FV-437 | |
| 37 | Fan Limit Switch (Adjustable) | FV-407A | |
| 38 | 12" X 12 FT HiTex Vinyl Ducting | FV-HD12 | |
| 39 | Thermostat w/ 25Ft Cord - Female Plug | FV-THA | |
| 40 | Thermostat w/ 25Ft Cord - Male Plug | FV-THB | As of 2011 |

## ***Accessories***

# POWER SUPPLY INDICATOR LIGHT - FVO-400 & FVNP-400 & FVO-200 & FVNP-200

## Control Box

* **The power supply indicator light will help you detect any faulty power supplied to the heater.**
* **The power supply indicator light will detect various power supply issues such as; gounding issues or reverse Polarity or missing connections**

### Warning Light Indications

**The smart indicator can detect and display the following fault conditions:**

| | | |
|---|---|---|
| Green Light | → | Meets Power Requirements |
| Solid Red Light | → | Reverse Polarity |
| Flashing Red Light | → | Ground or Neutral issue |

**** ATTENTION****
**IF RED LIGHT IS INDICATED, MAKE CORRECTIONS TO POWER SUPPLY BEFORE TURNING HEATER ON. FAILURE TO DO SO.**
**WILL VOID ANY WARRANTY**

flagro INDUSTRIES LIMITED

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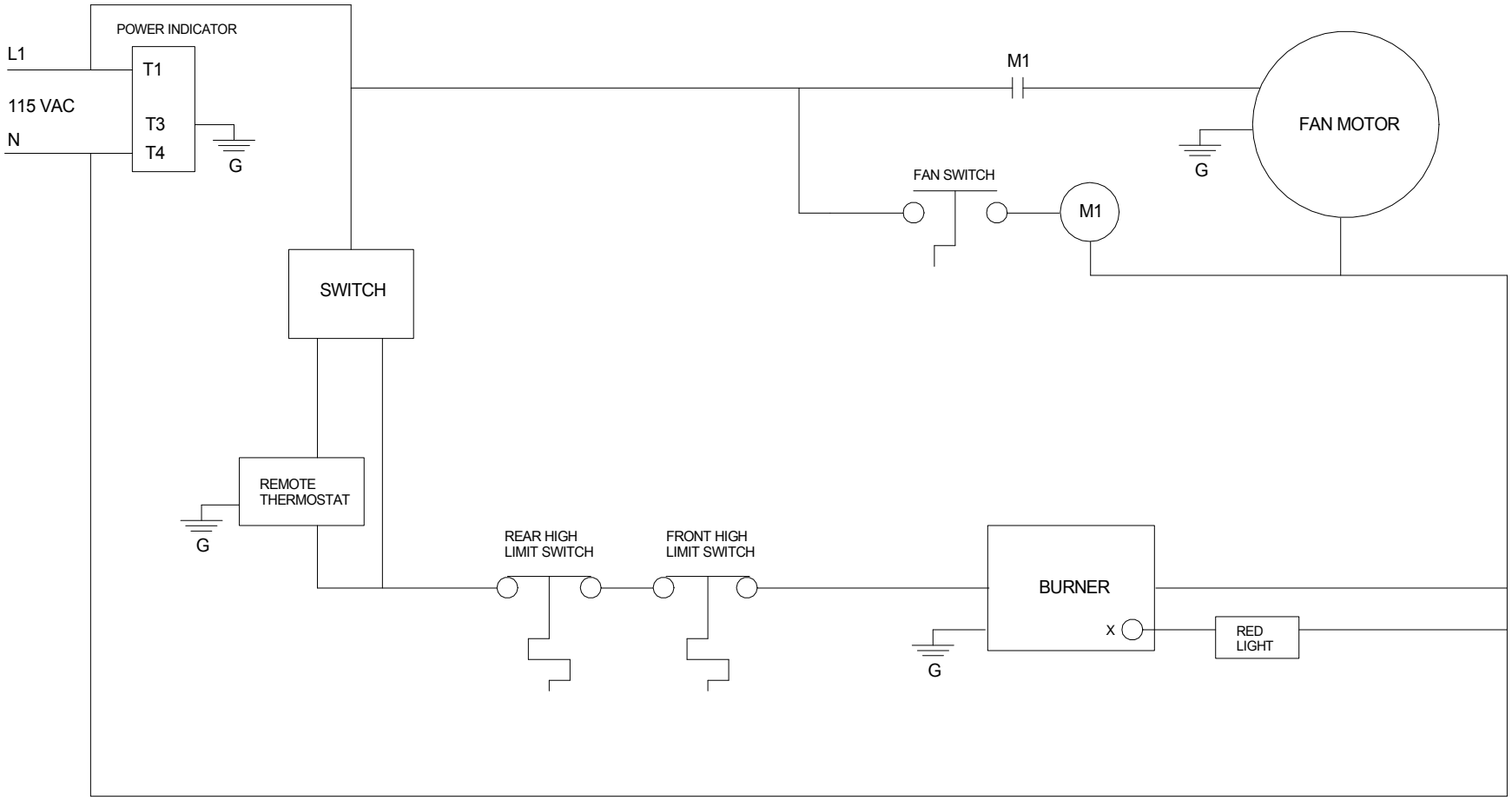
# FV-400 SERIES - WIRING SCHEMATIC 2011

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|---|---|
| FLAGRO INDUSTRIES LIMITED | |
| **TITLE:** FVO-400 - WIRING SCHEMATIC | **DWG. NO.** FV-400 WS 2011 |

# PARTS LIST FOR FVN-400 / FVP-400

| Part Number | Part Description | |
|---|---|---|
| FV-401 | PRIMARY FAN MOTOR | |
| FV-402 | 16" FAN BLADE | |
| FV-403 | 16" WHEEL | |
| FV-404 | 18" POWER CORD C/W PLUG END | |
| FV-405 | SS HEAT EXCHANGER | |
| FV-406 | HIGH LIMIT SWITCH (OUTLET) | |
| FV-407A | FAN LIMIT SWITCH (ADJUSTABLE) | |
| FV-407G | FAN LIMIT SILICONE GASKET | |
| FV-408 | FAN MOTOR CANOPY | |
| FV-409 | TOGGLE SWITCH (ON CONTROL BOX) | |
| FV-410 | GREEN LIGHT (ON CONTROL BOX) PRIOR TO 2009 | |
| FV-411 | RED LIGHT (ON CONTROL BOX) | |
| FV-414 | THERMOSTAT PLUG (ON CONTROL BOX) | |
| FV-414A | THERMOSTAT PLUG (ON CONTROL BOX) 2008> | |
| FV-414B | THERMOSTAT PLUG (ON CONTROL BOX) 2011> | |
| FV-415 | FEMALE CONNECTOR FOR FV-THA | |
| FV-415A | FEMALE CONNECTOR FOR FV-THB | |
| FVNP-424 | RIELLO BURNER | |
| FVP-425 | LP BURNER ORIFICE FOR FVP-400 | |
| FVN-426 | NG BURNER ORIFICE FOR FVN-400 | |
| S6012-12 | VALVE ASSEMBLY HOSE | |
| 349-12E | STEEL ELBOW (3/4" MP X 3/4" JIC. FFL) | |
| 40-100-12 | SCH 40 ELBOW (3/4") | |
| FVNP-427 | MAXITROL REGULATOR (RV52) | |
| FVNP-428 | MAG TYPE 200 SOLENOID VALVE | |
| FVNP-429 | ASCO SOLENOID VALVE | |
| FVNP-430 | VALVE ASSEMBLY MOUNTING BRACKETS (2) | |
| FV-431 | BURNER GASKET | |
| FV-433 | FEELER GAUGE | |
| FV-433B | FEELER GAUGE - SOLID | |
| FV-434 | FRONT FACE PLATE (2 X12") | |
| FV-437 | HIGH LIMIT (REAR) | |

| | | |
|---|---|---|
| FV-438 | LIFTING HARNESS | |
| FV-446 | SIGHT GLASS C/W FIBER GASKET | |
| FV-447 | SIGHT GLASS WASHER | |
| FV-448 | MAIN RELAY | |
| FV-449SI | SMART INDICATOR - 2009 > | |
| FVNP-300162 | IGNITION MODULE | |
| FVNP--3002307 | G400 BURNER SUB-BASE | |
| FVNP-3005447 | GAS PRESSURE TEST POINT ADAPTER | |
| FVNP-3006688 | CHASSIS MOUNTING COLLAR | |
| FVNP-3006699 | DISTRIBUTOR HEAD & MIXING PLATE | |
| FVNP-3007276 | ELECTRODE ASSEMBLY | |
| FVNP-3007277 | FLAME ROD ASSEMBLY | |
| FVNP-3007310 | IONIZATION LEAD | |
| FVNP-3007448 | GROUND LEAD & CONNECTOR FOR BURNER | |
| FVNP-3020321 | AIR PRESSURE SWITCH FOR BURNER | |

| | **ACCESSORIES** | |
|---|---|---|
| FV-D12 | 12" X 12-FT CANVAS DUCTING | |
| FV-D16x25 | 16" X 25-FT CANVAS DUCTING | |
| FV-TH | THERMOSTAT C/W 25FT CORD/MALE PLUG END (BEFORE 2008) | |
| FV-THA | THERMOSTAT C/W 25FT CORD/FEMALE PLUG END (AFTER 2008) | |
| FV-THB | THERMOSTAT C/W 25FT CORD/FEMALE PLUG END (AFTER 2011) | |
| FVN-427 | LP TO NG CONVERSION KIT FOR FVP-400 | |
| FVP-425 | NG TO LP CONVERSOIN KIT FOR FVN-400 | |
| FV-VK | 6" X 3FT C-VENT C/W RAIN CAP | |